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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/659,187	09/10/2003	Klaus Schroder	156P034	5607	
40621	7590 07/13/2007		EXAM	INER	
PASTEL LAW CHRISTOPHE			ROSE, KIESHA L		
8 PERRY LAN ITHACA, NY			ART UNIT PAPER NUMBER		
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			07/13/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)				
		10/659,187	SCHRODER, KLAUS				
	Office Action Summary	Examiner	Art Unit				
		Kiesha L. Rose	2822				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover she	et with the correspondence address				
A SH WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANS INSTRUCTION OF A SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMM 36(a). In no event, however, r vill apply and will expire SIX (6 cause the application to become	UNICATION. lay a reply be timely filed MONTHS from the mailing date of this communication me ABANDONED (35 U.S.C. § 133).				
Status							
2a)⊠	<i>,</i> —	action is non-final.	•				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under E	х рапе Quayle, 1935	C.D. 11, 453 O.G. 213.				
Disposiți	on of Claims						
5)□ 6)⊠ 7)□	Claim(s) <u>1-13</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) <u>1-13</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or						
Applicati	on Papers						
10)	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correcti The oath or declaration is objected to by the Example.	epted or b)⊡ objecte drawing(s) be held in ab on is required if the dra	eyance. See 37 CFR 1.85(a). wing(s) is objected to. See 37 CFR 1.121((d).			
Priority u	ınder 35 U.S.C. § 119						
12) a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: Certified copies of the priority documents Certified copies of the priority documents Copies of the certified copies of the priorical application from the International Bureau	s have been received s have been received ity documents have b (PCT Rule 17.2(a)).	in Application No een received in this National Stage				
* S	see the attached detailed Office action for a list of	of the certified copies	not received.				
Attachmen	t(s)			•			
1) Notic 2) Notic 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	Pape 5) 🔲 Notic	iew Summary (PTO-413) No(s)/Mail Date e of Informal Patent Application				

Application/Control Number: 10/659,187

Art Unit: 2822

DETAILED ACTION

This Office Action is in response to the RCE filed 30 April 2007.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 1 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Claim 1 discloses that the apparatus does not contain a p-n junction or a pin junction. This limitation is a negative limitation. The mere absence of a positive recitation is not a basis for an exclusion. A lack of a literal basis in the specification for a negative limitation may not be sufficient to establish a prima facie case for lack of descriptive support. (Ex parte Parks, 30 USPQ2d 1234,1236 (Bd. Pat. App. & Inter. 1993)

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

Application/Control Number: 10/659,187

Art Unit: 2822

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-7 and 10 are rejected under 35 U.S.C. 102(b) as being anticipated by Hamada (U.S. Publication 2003/0000930).

In re claims 1 and 10, Hamada discloses a laser device (Fig. 4c) that contains a non-metallic substrate (11), an electrically conducting film (12) deposited on substrate, wherein the film is a metallic alloy other than Cr-alloy when substrate is Ge, wherein apparatus does not contain a p-n junction or a pin junction, wherein a junction of film and substrate forms a plane, wherein the current flow within the film is substantially parallel to the plane, wherein substrate consists essentially of a substrate material (Ge) which forms a metasable bond with film and wherein deposition is in at least a high vacuum environment. (Page 2, paragraph 0027)

In re claim 2, the substrate material is a non-metallic element (Ge). (Page 2, paragraph 0027)

In re claims 3 and 6, the film is a material consisting of copper (Cu). (Page 2, paragraph 0032)

In re claims 4 and 7, the film material is Ni. (Page2, paragraph 0032)

In re claim 5, an overlayer (13) on the conducting film, wherein the overlayer is Ge. (Page 2, paragraph 0032)

Application/Control Number: 10/659,187

Art Unit: 2822

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 8-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hamada.

In re claims 8-9, Hamada discloses all the limitations except for the thickness of the substrate and the film and the electrical resistance of the film. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have the desired thickness of the substrate and the film and the electrical resistance of the film, since it has been held that where the general condition of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. In re Aller, 105 USPQ 233. (1955)

In re claims 11-13, Hamada discloses the claimed invention except for the vacuum environment has a base pressure of a certain value. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have the vacuum environment to have a base pressure of a certain value, since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. In re Boesch, 617 F. 2d 272, 205 USPQ 215. (1980)

Art Unit: 2822

Response to Arguments

Applicant's arguments with respect to claims 1-13 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kiesha L. Rose whose telephone number is 571-272-1844. The examiner can normally be reached on T-F 8:30-6:00 off Mondays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Zandra Smith can be reached on 571-272-2429. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KLR KLR Fore July 9.2007 Prindry Examiner.